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10/807,150	03/23/2004	Tetsuya Kato	TAK-0396	3695
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•	Amplication No.	Annlicont(a)
	Application No.	Applicant(s)
Office Action Summers	10/807,150	KATO, TETSUYA
Office Action Summary	Examiner	Art Unit
	Tawfik Goma	2627
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be till apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
1)⊠ Responsive to communication(s) filed on <u>07 Not</u> 2a)⊠ This action is FINAL . 2b)□ This 3)□ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 1 and 3-12 is/are pending in the application Papers 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1 and 3-12 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or are subject to restriction and/or are subject to by the Examine 10) The specification is objected to by the Examine applicant may not request that any objection to the or are subjection to the	vn from consideration. r election requirement. r. epted or b) objected to by the drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Ex	·	
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat ity documents have been receive (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s)	•	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate

10/807,150 Art Unit: 2627

DETAILED ACTION

This action is in response to the amendment filed on 11/07/2007.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3-5, 7-9 and 11-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kondo et al (US 5724322) in view of Yamagami et al (US 5949746) and further in view of Katoh et al (US 7068581).

Regarding claim 1, Kondo discloses an apparatus for playback of a data storage disk of the type having a series of data streams (M1-M5, fig. 12b) and a TOC prerecorded in preassigned tracks thereon (UTOC, fig. 12A), the TOC on the disk listing the starting addresses of the data streams (fig. 13), characterized in that the playback apparatus comprises: a transducer for reading the prerecorded data streams and TOC on the disk by relatively scanning the tracks thereon (3, fig. 7); storage means connected to said transducer for rewritably storing the TOC read on the disk by said transducer (13, fig. 7 and col. 10 lines 66-67 through col. 11 lines 1-5); and data processing means connected to said transducer for creating an expanded TOC by adding an ending address of each data stream to the original TOC which has been stored on said storage means and for controlling the scanning motion of the transducer with respect to the disk according to the expanded TOC (11, fig. 7 and col. 17 lines 23-42), the expanded TOC being editable for causing said data processing means to play either whole or

Application/Control Number:

10/807,150 Art Unit: 2627

some desired part of any desired one of the data streams (figs. 12a-12c and col. 17 lines 42-59).

Kondo further discloses the apparatus characterized in that said data processing means comprises: input means for inputting instructions for editing the TOC that has been stored on said storage means (35, fig. 3b); ending address addition means for adding to the original TOC that has been stored on said storage means, as the ending address of each data stream, the starting address of the next data stream (A32-33, figs. 12A-12B and fig. 13); editing means for editing the expanded TOC on said storage means in response to the instructions that have been input on said input means (fig. 13 and 11, fig. 7); and control means for causing the data storage disk to be played according to the edited TOC on said storage means (col. 16 lines 30-34). Kondo fails to disclose each data stream being comprised of a series of frames each having a data region for storage of data and an address region for storage of the address of the frame in question in the track in question. In the same field of endeavor, Yamagami discloses providing each data stream with an address region for storing an address of the frame (Subcode, fig. 5) and a data region (Data, fig. 5). It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to modify the apparatus disclosed by Kondo by using it with a disk of the type wherein an address region is provided for the frame. The rationale is as follows: One of ordinary skill in the art would have been motivated to provide an address region for the frame in order to use the device with a pre-formatted disc that is capable of recording user data.

Further regarding claim 1, Kondo fails to disclose wherein the ending addresses of the data streams are not listed. In the same field of endeavor, Katoh discloses an optical recording medium wherein the ending addresses are not listed (fig. 6 and col. 5 lines 7-20). It would have

10/807,150

Art Unit: 2627

been obvious to one of ordinary skill in the art at the time of the applicant's invention to not list the ending addresses as in Katoh. The rationale is as follows: One of ordinary skill in the art at the time of the applicant's invention would have been motivated to not list the ending addresses in order to save the memory that would be used by an ending address information byte for each data sequence.

Regarding claim 3, Kondo further discloses the apparatus characterized in that said ending address addition means, said editing means and said control means are comprised of: a central processor unit connected to said input means (11, fig. 7 and 19, fig. 7); and a memory connected to said central processor unit and storing a program for creating the expanded TOC by adding the ending addresses and a program for editing the expanded TOC (13, fig. 7).

Regarding claim 4, Kondo further discloses the apparatus characterized in that said data processing means comprises: means for specifying any desired address intermediate the starting address and ending address of any desired one of the prerecorded data streams on the disk in order to divide the desired data stream into parts upstream and downstream (col. 17 lines 23-32), respectively, of the desired intermediate address; and means for introducing into the TOC on said storage means the desired intermediate address both as the ending address of the upstream division of the desired data stream and as the starting address of the downstream division of the desired data stream (figs. 12a-12c and 13-14 and col. 17 lines 33-35), and for introducing into the TOC on said storage means the ending address of the desired data stream as the ending address of the downstream division of the desired data stream data stream (A25, fig. 14).

Regarding claim 5, Kondo further discloses the apparatus characterized in that said data processing means comprises, in order to enable the user to sequentially play back a plurality of

10/807,150

Art Unit: 2627

selected ones of the prerecorded data streams on the disk, means for storing on the TOC on said storage means the starting address of the most upstream one of the selected data streams as the starting address of the selected series of data streams (P-TNO1, A20, fig. 13), and for storing on the TOC on said storage means the ending address of the most downstream one of the selected data streams as the ending stream of the selected series of data streams (A31, P-TNO6, A31).

Regarding claim 7, Kondo discloses the apparatus further characterized in that said data processing means comprises, in order to inhibit the playback of part of any selected one of the prerecorded data streams on the disk, means for changing at least either of the starting and ending addresses of the selected data stream on the TOC on said storage means (col. 18 lines 40-65).

Regarding claim 8, Kondo discloses the apparatus further characterized in that said data processing means comprises, in order to enable the sequential playback of any selected first one of the prerecorded data streams on the disk and a second one that is immediately downstream of the first selected data stream, with a change in the point of transition between the two: means for specifying a desired address intermediate the starting and ending addresses of the second data stream; and means for storing the desired intermediate address on the TOC on said storage means as the ending address of the first selected data stream and as the starting address of the second data stream (col. 16 lines 64-67 through col. 17 lines 1-22).

Regarding claim 9, Kondo discloses the apparatus further characterized in that said data processing means comprises, in order to enable the sequential playback of any selected first one of the prerecorded data streams on the disk and a second one that is immediately downstream of the first selected data stream, with a change in the point of transition between the two: means

10/807,150

Art Unit: 2627

for specifying a desired address intermediate the starting and ending addresses of the first data stream; and means for storing the desired intermediate address on the TOC on said storage means as the ending address of the first selected data stream and as the starting address of the second data stream (A32, A33, fig. 12b).

Regarding claim 11, Kondo further discloses the apparatus characterized in that said data storage disk is a CD (col. 11 lines 18-26)

Regarding claim 12, Kondo further discloses the apparatus characterized in that said starting and ending addresses are the absolute addresses on the CD (fig. 10).

Claims 6 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kondo et al (US 5724322) in view of Yamagami et al (US 5949746) and Katoh et al (US 7068581) and further in view of Yasuda et al (US 6501901).

Regarding claim 6, Kondo fails to disclose the apparatus characterized in that said data processing means comprises, in order to inhibit the playback of any selected one of the prerecorded data streams on the disk, means for erasing from the TOC the starting and ending addresses of the selected data stream. In the same field of endeavor, Yasuda discloses an apparatus for editing a TOC, wherein in order to inhibit the playback of a data stream, the starting and ending addresses are erased (fig. 9C). It would have been obvious to one of ordinary skill in the art to delete the starting and ending addresses from the TOC. The rationale is as follows: One of ordinary skill in the art would have been motivated to delete starting and ending addresses of a data stream in order to perform a skip or delete editing function to the playback.

Art Unit: 2627

Regarding claim 10, Kondo fails to disclose the apparatus further characterized in that said data processing means comprises the steps of switching the order of two data streams as claimed. In the same field of endeavor Yasuda discloses in order to enable the sequential playback of any selected two of the prerecorded data streams on the disk, with a change in the sequence of playback, means for storing, as the starting and ending addresses of a first selected data stream (F0, F2a, fig. 9d), the starting and ending addresses of a second selected data stream on the TOC on said storage means, and, as the starting and ending addresses of said first selected data stream (F3b, F1, fig. 9d), the starting and ending addresses of said first selected data stream on the TOC on said storage means (fig. 9d). It would have been obvious to one of ordinary skill in the art to perform the operation of storing the starting and ending addresses as claim. The rationale is as follows: One of ordinary skill in the art would have been motivated to store the starting addresses and ending addresses as claimed in order to perform a swapping operation by swapping the playback position of two of the data streams.

Response to Arguments

Applicant's arguments filed 11/07/2007 have been fully considered but they are not persuasive. Regarding applicant's arguments that Kondo fails to disclose providing, as the ending address of each data stream, the starting address of the next data stream, this argument is not persuasive because Kondo discloses that the starting address of the next data stream (i.e. A22, fig. 12b) is located at a location which corresponds to an ending address of the previous data stream (i.e. A21, fig. 12b). Applicant is correct in that Kondo also lists the ending address of the previous data streams in the TOC, but the ending addresses and the starting address of the next data stream are at equivalent locations in fig. 12b with no free areas or other segments

Application/Control Number:

10/807,150

Art Unit: 2627

existing between the first data stream and the subsequent data stream (col. 15 lines 64-67). The new limitations to the claim, which requires not listing the ending locations of the data streams overcomes the previous rejection, but the arguments presented by applicant pertain to this new limitation and are moot in view of the new ground of rejection (Katoh et al, as applied to claim 1 above).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tawfik Goma whose telephone number is (571) 272-4206. The examiner can normally be reached on 8:30 am - 5:00 pm.

Application/Control Number:

10/807,150 Art Unit: 2627

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Korzuch can be reached on (571) 272-7589. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Tawfik Goma/ 1/15/2008

/William Korzuch/ SPE, Art Unit 2627